

**METHOD AND SYSTEM FOR MODIFYING THE CONTENT OF E-MAIL  
TRANSMISSIONS BASED ON CUSTOMIZATION SETTINGS**

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**RELATED APPLICATIONS**

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modifying the content of e-mail transmissions by prompting a user based on the customization settings of an electronic message.

5    2. Background of the Invention

Present-day network systems communicate through a variety of channels in order to interconnect computers. Electronic mail is in widespread use as a mechanism for communicating messages and for transferring documents, images and other media such as sound files.

E-mail programs and other programs such as Internet browsers having e-mail capability permit a computer user to create a message that is sent to an e-mail server for the recipient of the message. Typical e-mail programs provide a variety of features for customizing an e-mail message. For example, attachment lists permit the computer user to attach documents such as word-processor output files or encoded images such as scanned photographs that are rendered in a data storage format such as the joint photography and electronics group (JPEG) format, or other media such as sound files, etc. E-mail programs also permit the setting of priority level so that a recipient may be notified of the urgency of a message without reading the content and/or

flagging an e-mail message as personal, private or confidential.  
Further, the above-described e-mail programs permit copying (cc:) and blind-copying (bcc:) additional intended recipients of an e-mail message, adding an electronic signature, and/or encrypting  
5 e-mail content for security.

Often, a computer user generating an electronic mail message will customize an e-mail message, but does not comment within the message on particular customizations (e.g., attachments) that should be noted by the e-mail recipient.

Therefore, it would be desirable to provide a method and system for modifying the content of an e-mail transmission by using the customization settings set for the e-mail message to notify the recipient of customizations that have been performed.

## SUMMARY OF THE INVENTION

The above objective of modifying the content e-mail messages is achieved in a method and system that receive a user  
5 input indicating that an e-mail message has been completed, check the e-mail message customization settings, and in response to detecting a customization setting, generating a user prompt to permit the user to insert text and/or other appropriate indications within the e-mail message to notify a recipient of particular customizations that have been performed on the e-mail message. The method may be embodied in a computer program product for performing the method within a general purpose computer.

The foregoing and other objectives, features, and advantages of the invention will be apparent from the following, more particular, description of the preferred embodiment of the invention, as illustrated in the accompanying drawings.

## BRIEF DESCRIPTION OF THE DRAWINGS

**Figure 1** is a block diagram depicting a networked computer system in which a preferred embodiment of the invention may be practiced.

**Figure 2** is a pictorial diagram depicting output of an e-mail program displayed on the graphic display of **Figure 1**, having a user prompt in accordance with a preferred embodiment of the invention.

**Figure 3** is a flowchart depicting operation of an e-mail completion system in accordance with a preferred embodiment of the invention.

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now to the figures and in particular to **Figure 1**, a networked computer system within which a preferred embodiment of the present invention may be practiced is depicted in a block diagram. To support e-mail functions, an e-mail server **10** is coupled to the network via a network connection **11**. Also coupled to the network is a personal computer **12** having a processor **16** coupled to a memory **17** for executing program instructions from memory **17**. Personal computer **12** is coupled to a graphical display **13** for displaying program output and input devices such as a mouse **15** and a keyboard **14** for receiving user input. The networked computer system may be coupled to a public network such as the Internet, or may be a private network such as the various "intra-nets" that are implemented within corporate offices and other installations requiring secure data communications.

Within memory **17**, an e-mail program embodying a method in accordance with a preferred embodiment of the present invention is executed by processor **16**. Personal computer **12** is included to provide a demonstrative example of a general purpose computer, and it will be understood by those skilled in the art that the techniques of the present invention apply to a variety of other

e-mail applications such as dedicated Internet appliances and large mainframe computers having user terminals. The present invention also applies to personal e-mail appliances such as personal digital assistants (PDAs) and e-mail enabled pagers and cellular telephones.

Referring now to **Figure 2**, an output of an e-mail program in accordance with a preferred embodiment of the invention is depicted. While the invention is depicted with screens in American English language, the invention may be adapted to other languages and use clues that are localized to e-mail use in other languages and other countries. E-mail program output **30** forms a user output on graphical display **13** to permit a computer user to interact with the e-mail program executing within personal computer **12**. E-mail program output **30** has a frame with menu options and a message area **31** for entering the text of e-mail messages via keyboard **14** or other input device such as a dictation program with audio input. E-mail program output further has a subject area **20** for entering an e-mail message subject heading (or displaying an existing subject heading generated when forwarding an e-mail message, etc.).

A toolbar **45** includes buttons for setting message options or initiating an options menu and an attach button for providing

attachments to add attachments to the e-mail. The e-mail message is sent by pressing a send button **33** in response to which the e-mail message and any attachments are sent to recipient's e-mail server **10**, with the characteristics in accordance with the customization options that are set. Or, the e-mail message may be saved along with the customized characteristics for later transmission by pressing a save button **32**. The recipient and copied recipient list **22** provides a mechanism for entering the e-mail addresses of intended recipients.

The above-incorporated patent application "METHOD AND SYSTEM FOR COMPLETING E-MAIL TRANSMISSIONS" teaches a method and system that parse an e-mail message for clues indicating that an e-mail program user intended to customize a particular message based on the content of the e-mail message text. The method and system described therein provides a means for reminding a user to set customization settings when the content of the message indicates that the e-mail program user likely intended to do so. In contrast, the present invention concerns a method for notifying the recipient of customizations within an e-mail message (e.g., attachments, other recipients, etc.) so that the recipient takes note of the customizations.



By checking the e-mail message customization settings prior to sending or upon saving an e-mail message, the e-mail program can prompt the sender to insert information within the e-mail message in response to detecting the customization setting

5 during a check or scan of the settings when the user saves or sends the message. In an alternative embodiment, the message can be parsed for strings that already indicate to the recipient that a customization is present, and the prompting of the sender to insert information is then skipped. The method of the present invention may be used in concert with the method described in the above-incorporated patent application, and the parsing of the message text may be simultaneously performed for the method of the present invention and the method described in the above-incorporated patent application.

The above-described customization settings check may also be performed in response to the user clicking an icon, entering a menu option or taking another action to trigger a check of customization settings and generating prompts in response to

20 detected customization settings. Examples of customization settings are: priority settings, encryption settings, the recipient list ("to:", "cc:" and "bcc:" recipients), electronic signatures, content type and message attachments. When prompting an e-mail program user, the method and system of the present

invention provide text information for insertion into the message text or subject heading that will indicate the presence of a customization to the recipient of the e-mail message.

5 Table 1 shows exemplary customization settings and actions for text modification prompts for various customization features of the e-mail program. The examples are for illustrative purposes only and are not intended to be limiting. The insertion string for a given detected customization may be customizable for and by each user and the insertion point (subject line or message text) may be programmable as well. The prompt may or may not display the string or the prompt may merely indicate that a string should be inserted by the user.

Customization Feature	Exemplary Action
Message Priority	Prompt to insert priority (e.g., "Urgent") in subject line
Encryption	Prompt to insert "Encrypted" at bottom of message
cc: and bcc:	Prompt to generate cc: list at bottom of message text (and optionally bcc: list)
Electronic Signature	Prompt to add "signed electronically" to bottom of message text
Attachment	Prompt to add "Attachment(s)" at the bottom of message text
Message type	Prompt to add message type (e.g., "Private") in subject line

Table 1

When the e-mail program checks the customization settings and finds that the sender of the e-mail has customized an e-mail message, the user may be queried by a prompt dialog **37**. As described above, prompt dialog **37** may be generated in further response to the e-mail program determining that there is no text in the message that indicates a particular customization setting, or may be generated independent of message content. Prompt dialog **37** notifies the user that two attachments were found and asks the user if they wish to insert the text "Attachments (2)" within the e-mail message (generally at the bottom). The sender may then insert the text by pressing yes button **38**, or the user may elect to skip text insertion via skip button **39**. Alternatively, the method and system may the prompt altogether and insert a predetermined string. Similarly, dialogs **42-44** demonstrate possible prompts based on other customizations detected. For example, a "cc:" list entry **22A** triggers generation of priority dialog **42**, which asks the user if they wish to add a "cc:" list in accordance with the copied recipient (in this example the e-mail program removes the server address and extracts the name portion of the address). A customization setting of "Urgent" causes dialog **44** to be presented, prompting for insertion of the text "[URGENT]" within subject line **20**.

Referring now to **Figure 3**, the e-mail modification method of the present invention is depicted in a flowchart. When the e-mail sender provides a user input indicating that an e-mail message is completed (**step 50**), the customization settings are checked to detect customizations that have been performed (**step 51**). If a particular customization is found (**decision 52**) (and optionally if text is not present indicating the customization), a text string is generated describing the e-mail customization (**step 53**). Then, the user is prompted to present the option of inserting the text string into the message (subject line or message body) (**step 54**), otherwise the e-mail message is sent or saved in accordance with the user input in **step 50**. Note that the exemplary system depicted in the flowchart of **Figure 3** may be implemented in a variety of fashions, such as skipping the customization detection (**step 53**) based on a pre-parsing for existing customization indications. For example, the checking may be skipped for customizations if the parser finds a string indicating the particular customization is present.

While the invention has been particularly shown and described with reference to the preferred embodiments thereof, it will be understood by those skilled in the art that the foregoing and other changes in form, and details may be made

therein without departing from the spirit and scope of the invention.

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